

FEDERAL COMMUNICATIONS COMMISSION

CLASS OF STATION FM

MEH

The following application is submitted for action by the Chief, Broadcast Bureau.

ST	FILE NUMBER	CALL	APPLICANT AND LOCATION	NATURE OF APPLICATION
IL	BMPH -921014IF	WRAJ-FM 96.5MHZ	UNION BROADCASTING, INC. ANNA IL	MOD OF CP(BPH-890531IB) TO MAKE CHANGES HAAT: 275 METERS (H&V); ANT.

LICENSE EXPIRATION DATE DEC 1, 1996

P.N. 10-30-92

Mary J. Mouser
CHIEF, LICENSE DIVISION

RECOMMENDATION: GRANT() CONSTRUCTION DATES, START _____ END _____
 CONTESTED () UNCONTESTED ()

+

APPROVED _____

FOR CHIEF, BROADCAST BUREAU

F.C.C.-WASHINGTON, D.C.

ORIGINAL

LAW OFFICES

FISHER, WAYLAND, COOPER AND LEADER

1255 TWENTY-THIRD STREET, N.W.

SUITE 800

WASHINGTON, D. C. 20037-1170

TELEPHONE (202) 659-3494

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WRITER'S DIRECT NUMBER

(202) 775-3547

October 14, 1992

BEN S. FISHER
(1890-1954)

CHARLES V. WAYLAND
(1910-1980)

OF COUNSEL
JOHN Q. HEARNE

MCI MAIL: FWCLDC

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ANN K. FORD
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KELLY D. YAKSICH*
ANDREW W. SHROYER*

*NOT ADMITTED IN D.C.

VIA HAND DELIVERY TO MELLON BANK

Ms. Donna R. Searcy
Secretary
Federal Communications Commission
1919 M Street, N.W.
Room 222
Washington, D.C. 20554

Re: Station WRAJ-FM
Anna, Illinois
FCC Form 301 application
FCC File No. BMPH-920817IH

Dear Ms. Searcy:

Transmitted herewith in triplicate, on behalf of Union Broadcasting, Inc., the licensee of Station WRAJ-FM, Anna, Illinois, is a retendered copy of the above application.

The above-referenced application was accepted for filing by Commission Public Notice, Report No. 15343, released September 4, 1992. Union Broadcasting had no reason to believe that there was any problem with the application. However, this week Union received the application back from the Commission with a letter dated October 5th stating that the application had been dismissed, apparently because the check for the filing fee had not been honored.

Union believes that the dismissal was the result of a clerical error by either the bank or one of Union's personnel.

In any case, the application is being immediately retendered with a cashier's check in the amount of \$565.00 made payable to the FCC, along with the required Form 155.

Union respectfully requests that the application be processed expeditiously pursuant to the original file number. An expeditious processing of this application will not only permit Union to promptly improve its facility but will also enable Herrin Broadcasting, Inc. to build Station WVZA(FM), the new facility it is proposing in Herrin, Illinois. Herrin cannot build that facility until Union vacates its existing channel.

If there are any questions concerning this application, please communicate with the undersigned.

Very truly yours,

A handwritten signature in cursive script, reading "Kathryn R. Schmeltzer".

Kathryn R. Schmeltzer

KRS:srb
Attachs.
5198-000.L1

Approved by OMB
3060-0027
Expires 11/30/94

FCC 301

FEDERAL COMMUNICATIONS COMMISSION
WASHINGTON, D.C. 20554

FCC

FCC/MELLON OCT 14 1992

Section I - GENERAL INFORMATION (Page 2)

(c) Check one of the following boxes:

- ☐ Application for NEW station
- ☐ MAJOR change in licensed facilities; call sign: _____
- ☐ MAJOR change in licensed facilities; call sign: _____
- ☐ MAJOR modification of construction permit; call sign: _____

File No. of construction permit: _____

- ☒ MINOR modification of construction permit; call sign: _____ WRAJ-FM

File No. of construction permit: _____ BPH-890531IB

- ☐ AMENDMENT to pending application; Application file number: _____

NOTE: It is not necessary to use this form to amend a previously filed application. Should you do so, however, please submit only Section I and those other portions of the form that contain the amended information.

4. Is this application mutually exclusive with a renewal application? ☐ Yes ☒ No

If Yes, state:

Call letters	Community of License	
	City	State

SECTION V-C - TV BROADCAST ENGINEERING DATA (Page 5)

20. Environmental Statement/See 47 C.F.R. Section 1.1301 et seq.)

Would a Commission grant of this application come within 47 C.F.R. Section 1.1307, such that it may have a significant environmental impact?

☐ Yes ☒ No

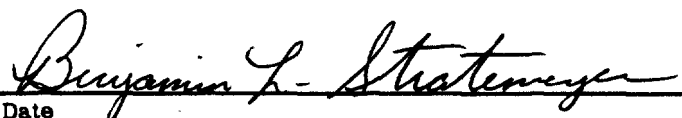
If you answer Yes, submit as an Exhibit an Environmental Assessment required by 47 C.F.R. Section 1.1311.

Exhibit No.

If No, explain briefly why not.

CERTIFICATION

I certify that I have prepared this Section of this application on behalf of the applicant, and that after such preparation, I have examined the foregoing and found it to be accurate and true to the best of my knowledge and belief.

Name (Typed or Printed)	Relationship to Applicant (e.g., Consulting Engineer)
Benjamin L. Stratemeyer	President
Signature	Address (Include ZIP Code)
	Route 5, Box 110 Centralia, IL 62801
Date	Telephone No. (Include Area Code)
August 10, 1992	(618) 833-2148

SECTION VI - EQUAL EMPLOYMENT OPPORTUNITY PROGRAM

1. Does the applicant propose to employ five or more full-time employees?

N/A

☐ Yes ☐ No

If Yes, the applicant must include an EEO program called for in the separate Broadcast Equal Employment Opportunity Program Report (FCC 896-A).

SECTION VII - CERTIFICATIONS

1. Has or will the applicant comply with the public notice requirement of 47 C.F.R. Section 73.3580?

☐ N/A ☐ Yes ☐ No

2. Has the applicant reasonable assurance, in good faith, that the site or structure proposed in Section V of this form, as the location of its transmitting antenna, will be available to the applicant for the applicant's intended purpose?

☒ Yes ☐ No

Exhibit No.

If No, attach as an Exhibit, a full explanation.

3. If reasonable assurance is not based on applicant's ownership of the proposed site or structure, applicant certifies that it has obtained such reasonable assurance by contacting the owner or person possessing control of the site or structure.

Name of Person Contacted

J.W. Davis

Telephone No. (include area code)

(618) 985-2333

Person contacted: (check one box below)

☐ Owner

☒ Owner's Agent

☐ Other (specify)

4. The applicant certifies that, in the case of an individual applicant, he or she is not subject to a denial of federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 853a, or, in the case of a non-individual applicant (e.g., corporation, partnership or other unincorporated association), no party to the application is subject to a denial of federal benefits pursuant to that section. For the definition of a "party" for these purposes, see 47 C.F.R. Section 1.2002(b).

☒ Yes ☐ No

The APPLICANT hereby waives any claim to the use of any particular frequency as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended.)

The APPLICANT acknowledges that all the statements made in this application and attached exhibits are considered material representations, and that all exhibits are a material part hereof and incorporated herein.

The APPLICANT represents that this application is not filed for the purpose of impeding, obstructing, or delaying determination on any other application with which it may be in conflict.

In accordance with 47 C.F.R. Section 1.65, the APPLICANT has a continuing obligation to advise the Commission, through amendments, of any substantial and significant changes in information furnished.

SECTION VII - CERTIFICATION (Page 2)

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT
(U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT
(U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

I certify that the statements in this application are true and correct to the best of my knowledge and belief, and are made in good faith.

Name of Applicant Union Broadcasting, Inc.	Signature <i>Benjamin L. Stattermeyer</i>
Date August 10, 1992	Title President

FCC NOTICE TO INDIVIDUALS REQUIRED BY THE PRIVACY ACT
AND THE PAPERWORK REDUCTION ACT

The solicitation of personal information requested in this application is authorized by the Communications Act of 1934, as amended. The Commission will use the information provided in this form to determine whether grant of the application is in the public interest. In reaching that determination, or for law enforcement purposes, it may become necessary to refer personal information contained in this form to another government agency. In addition, all information provided in this form will be available for public inspection. If information requested on the form is not provided, processing of the application may be delayed or the application may be returned without action pursuant to the Commission's rules. Your response is required to obtain the requested authority.

Public reporting burden for this collection of information is estimated to vary from 72 hours to 302 hours 45 minutes with an average of 192 hours 31 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, can be sent to the Federal Communications Commission, Information Resources Branch, Room 416, Paperwork Reduction Project, Washington, D.C. 20554, and to the Office of Management and Budget, Paperwork Reduction Project (3060-0027), Washington, D.C. 20503.

THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, P.L. 93-579, DECEMBER 31, 1974, 5 U.S.C. 552(a)(3), AND THE PAPERWORK REDUCTION ACT OF 1980, P.L. 96-511, DECEMBER 11, 1980, 44 U.S.C. 3507.

ORIGINAL

D.L. Markley & Associates, Inc.

Consulting Engineers

APPLICATION FOR MODIFICATION
OF CONSTRUCTION PERMIT

UNION BROADCASTING, INC.

WRAJ-FM

ANNA, ILLINOIS

CHANNEL 243C2

AUGUST, 1992

Consulting Engineers

Donald L. Markley, being first duly sworn, deposes and says that he is a Consulting Engineer and that he has been retained by Union Broadcasting, Inc.

Donald L. Markley, Affiant

Subscribed and sworn to before me this 5 Day of Aug 19 92

Sharon Boyer
Notary Public

"OFFICIAL SEAL"
SHARON BOYER
Notary Public, State of Illinois
My Commission Expires 3-6-99

APPLICATION FOR MODIFICATION OF CONSTRUCTION PERMIT

The following engineering statement and attached exhibits have been prepared for Union Broadcasting, Inc., licensee of Radio Station WRAJ-FM at Anna, Illinois and are in support of their application for modification

- 2 -

result from the location of the two antennas. However, if any such spurious signals are found to exist, they would be eliminated in the normal fashion through the use of cavity filters.

As the height of the center of radiation would be increased, the applicant will reduce the effective radiated power to maintain the equivalent of a Class C2 station. A similar power reduction also existed in the existing construction permit. The applicant will now reduce the effective radiated power to 15.5 KW. maximum. The station was authorized the use of a directional transmitting antenna. It is still proposed that a directional antenna will be utilized. The power will be limited toward KRJY(FM) at St. Louis, Missouri to avoid any interference problem with that station. The original interference study clearly demonstrates that the primary problem was interference to WRAJ-FM from KRJY(FM). Therefore, the primary requirement is to limit the distance to the WRAJ-FM 60 dBu. contour so that no overlap exists between that contour and the 54 dBu. F50/10 contour of KRJY(FM). A minor pattern modification is proposed to maintain the contours so that no interference will occur while optimizing the source area.

- 3 -

No new coverage map is provided in this application as that area is essentially unchanged from the existing construction permit. A new interference study is included to demonstrate the authorized and proposed contours.

As no change will occur to either of the existing tower structures on the site, no notification has been made to the FAA nor is such notification necessary. A study is included of the non-ionizing radiation which demonstrates that the signal levels will not exceed ANSI Standard C95.1-1982. In addition, the attached statement indicates the measures which will be taken to protect workers on the site.

Section V-B - FM BROADCAST ENGINEERING DATA	FOR COMMISSION USE ONLY File No. _____ ASB Referral Date _____ Referred by _____
--	--

Name of Applicant

Union Broadcasting, Inc.

Call letters (if issued)	Is this application being filed in response to a window? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, specify closing date: _____
--------------------------	--

Purpose of Application: (check appropriate boxes)

- | | |
|--|---|
| <input type="checkbox"/> Construct a new (main) facility | <input type="checkbox"/> Construct a new auxiliary facility |
| <input type="checkbox"/> Modify existing construction permit for main facility | <input type="checkbox"/> Modify existing construction permit for auxiliary facility |
| <input type="checkbox"/> Modify licensed main facility | <input type="checkbox"/> Modify licensed auxiliary facility |

If purpose is to modify, indicate below the nature of change(s) and specify the file number(s) of the authorizations affected.

- | | |
|--|--|
| <input checked="" type="checkbox"/> Antenna supporting-structure height | <input type="checkbox"/> Effective radiated power |
| <input checked="" type="checkbox"/> Antenna height above average terrain | <input type="checkbox"/> Frequency |
| <input type="checkbox"/> Antenna location | <input type="checkbox"/> Class |
| <input type="checkbox"/> Main Studio location | <input type="checkbox"/> Other (Summarize briefly) |

File Number(s) BPH-89053IB

89053IB

1. Allocation:

Channel No.	Principal community to be served:			Class (check only one box below)
	City	County	State	
243	Anna	Union	IL	<input type="checkbox"/> A <input type="checkbox"/> B1 <input type="checkbox"/> B <input type="checkbox"/> C3 <input checked="" type="checkbox"/> C2 <input type="checkbox"/> C1 <input type="checkbox"/> C

2. Exact location of antenna.

(a) Specify address, city, county and state. If no address, specify distance and bearing relative to the nearest town or landmark.

1.6 km. N. of Juden Creek Rd., Cape Girardeau, Mo.; Cape Girardeau County

(b) Geographical coordinates (to nearest second). If mounted on element of an AM array, specify coordinates of center of array. Otherwise, specify tower location. Specify South Latitude or East Longitude where applicable; otherwise, North Latitude or West Longitude will be presumed.

Latitude ° ' " <div style="display: flex; justify-content: space-around; margin-top: 5px;"> 37 22 16 </div>	Longitude ° ' " <div style="display: flex; justify-content: space-around; margin-top: 5px;"> 89 31 52 </div>
---	--

3. Is the supporting structure the same as that of another station(s) or proposed in another pending application(s)? ☒ Yes ☐ No

If Yes, give call letter(s) or file number(s) or both.

KGMO(FM) BPH-870225II

If proposal involves a change in height of an existing structure, specify existing height above ground level including antenna, all other appurtenances, and lighting, if any.

DNA

SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 2)

4. Does the application propose to correct previous site coordinates?
If Yes, list old coordinates.

☐ Yes ☒ No

Latitude	°	'	"	Longitude	°	'	"
----------	---	---	---	-----------	---	---	---

5. Has the FAA been notified of the proposed construction?

☐ Yes ☒ No

SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 3)

10. Is a directional antenna proposed?

☒ Yes ☐ No

If Yes, attach as an Exhibit a statement with all data specified in 47 C.F.R. Section 73.316, including plot(s) and tabulations of the relative field.

Exhibit No.
E-2

11. Will the proposed facility satisfy the requirements of 47 C.F.R. Sections 73.315(a) and (b)?

☒ Yes ☐ No

If No, attach as an Exhibit a request for waiver and justification therefor, including amounts and percentages of population and area that will not receive 3.16 mV/m service.

Exhibit No.
DNA

12. Will the main studio be within the protected 3.16 mV/m field strength contour of this proposal?

☒ Yes ☐ No

If No, attach as an Exhibit justification pursuant to 47 C.F.R. Section 73.1125.

Exhibit No.
DNA

13. (a) Does the proposed facility satisfy the requirements of 47 C.F.R. Section 73.207?

☒ Yes ☐ No

(b) If the answer to (a) is No, does 47 C.F.R. Section 73.213 apply?

☐ Yes ☒ No

(c) If the answer to (b) is Yes, attach as an Exhibit a justification, including a summary of previous waivers.

Exhibit No.
DNA

(d) If the answer to (a) is No and the answer to (b) is No, attach as an Exhibit a statement describing the short spacing(s) and how it or they arose.

Exhibit No.
ON FILE

(e) If authorization pursuant to 47 C.F.R. Section 73.215 is requested, attach as an Exhibit a complete engineering study to establish the lack of prohibited overlap of contours involving affected stations. The engineering study must include the following:

Exhibit No.
ON FILE

(1) Protected and interfering contours, in all directions (360°), for the proposed operation.

(2) Protected and interfering contours, over pertinent arcs, of all short-spaced assignments, applications and allotments, including a plot showing each transmitter location, with identifying call letters or file numbers, and indication of whether facility is operating or proposed. For vacant allotments, use the reference coordinates as the transmitter location.

(3) When necessary to show more detail, an additional allocation study utilizing a map with a larger scale to clearly show prohibited overlap will not occur.

(4) A scale of kilometers and properly labeled longitude and latitude lines, shown across the entire exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified.

(5) The official title(s) of the map(s) used in the exhibit(s).

14. Are there: (a) within 60 meters of the proposed antenna, any proposed or authorized FM or TV transmitters, or any nonbroadcast (except citizens band or amateur) radio stations; or (b) within the blanketing contour, any established commercial or government receiving stations, cable head-end facilities, or populated areas; or (c) within ten (10) kilometers of the proposed antenna, any proposed or authorized FM or TV transmitters which may produce receiver-induced intermodulation interference?

☒ Yes ☐ No

If Yes, attach as an Exhibit a description of any expected, undesired effects of operations and remedial steps to be pursued if necessary, and a statement accepting full responsibility for the elimination of any objectionable interference (including that caused by receiver-induced or other types of modulation) to facilities in existence or authorized or to radio receivers in use prior to grant of this application. (See 47 C.F.R. Sections 73.315(b), 73.316(a) and 73.318.)

Exhibit No.
ON FILE

SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 4)

15. Attach as an Exhibit a 7.5 minute series U.S. Geological Survey topographic quadrangle map that shows clearly, legibly, and accurately, the location of the proposed transmitting antenna. This map must comply with the requirements set forth in Instruction V (D). The map must further clearly and legibly display the original printed contour lines and data as well as latitude and longitude markings, and must bear a scale of distance in kilometers.

Exhibit No.
ON FILE

16. Attach as an Exhibit *(name the source)* a map which shows clearly, legibly, and accurately, and with the original printed latitude and longitude markings and a scale of distance in kilometers:

Exhibit No.
ON FILE

(a) the proposed transmitter location, and the radials along which profile graphs have been prepared;

(b) the 0.16 mV/m and 1 mV/m predicted contours; and

(c) the legal boundaries of the principal community to be served.

17. Specify area in square kilometers (1 sq. mi. = 259 sq. km.) and population (latest census) within the predicted 1 mV/m contour.

Area ON FILE sq. km.

Population ON FILE

18. For an application involving an auxiliary facility only, attach as an Exhibit a map *(Sectional Aeronautical Chart or equivalent)* that shows clearly, legibly, and accurately, and with latitude and longitude markings and a scale of distance in kilometers:

Exhibit No.
DNA

(a) the proposed auxiliary 1 mV/m contour; and

(b) the 1 mV/m contour of the licensed main facility for which the applied-for facility will be auxiliary. Also specify the file number of the license.

19. Terrain and coverage data *(to be calculated in accordance with 47 C.F.R. Section 73.313)*

Source of terrain data: *(check only one box below)*

☒ Linearly interpolated 30-second database

☐ 7.5 minute topographic map

(Source: NGDC)

☐ Other *(briefly summarize)*

SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 5)

Radial bearing (degrees True)	Height of radiation center above average elevation of radial from 3 to 16 km (meters)	Predicted Distances	
		To the 816 mV/m contour (kilometers)	To the 1 mV/m contour (kilometers)
*	ON FILE		
0			
45			
90			
135			
180			
225			
270			
315			

*Radial through principal community, if not one of the major radials. This radial should NOT be included in the calculation of HAAT.

20. Environmental Statement/See 47 C.F.R. Section 1.1301 et seq.

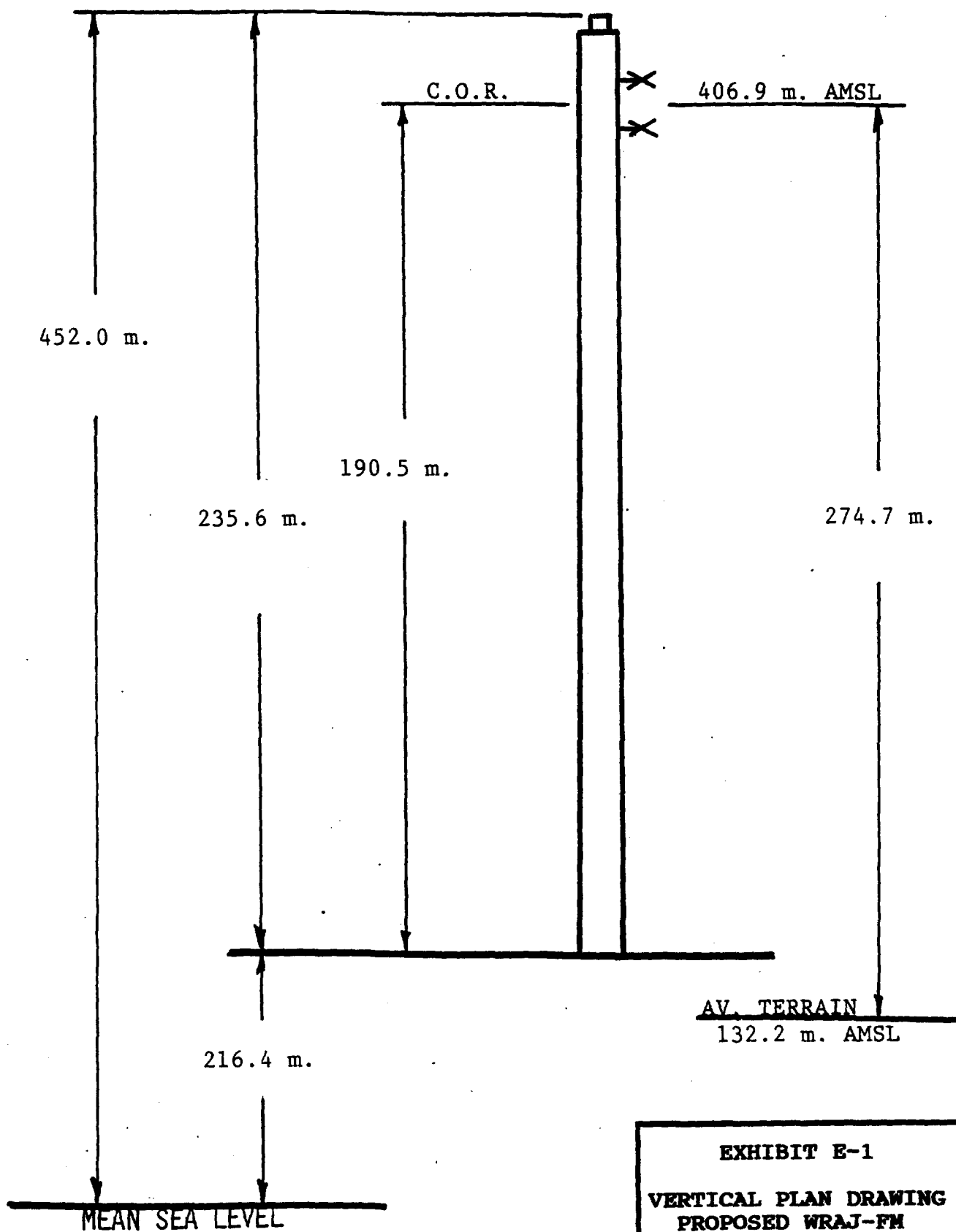
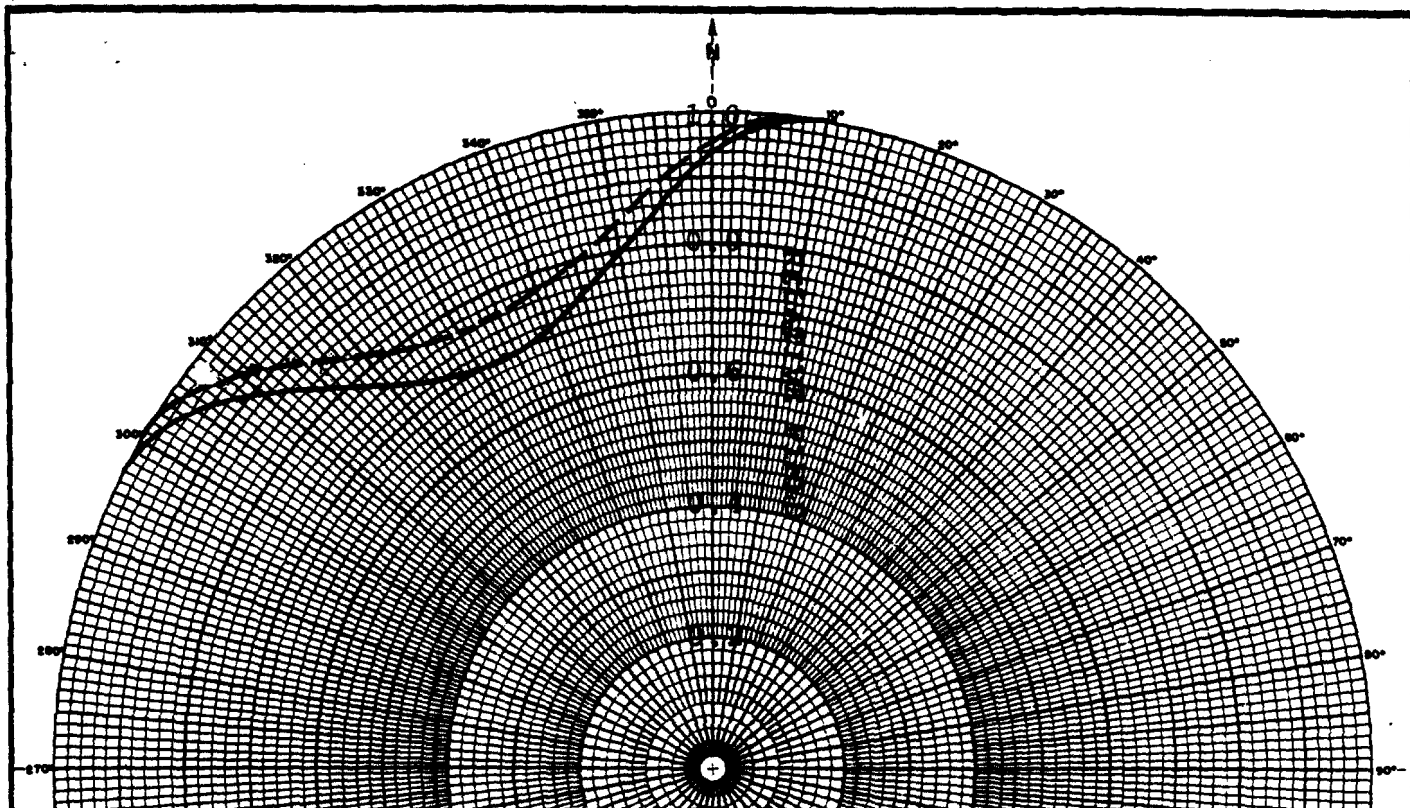


EXHIBIT E-1
VERTICAL PLAN DRAWING
PROPOSED WRAJ-FM
ANNA, ILLINOIS

NOT TO SCALE



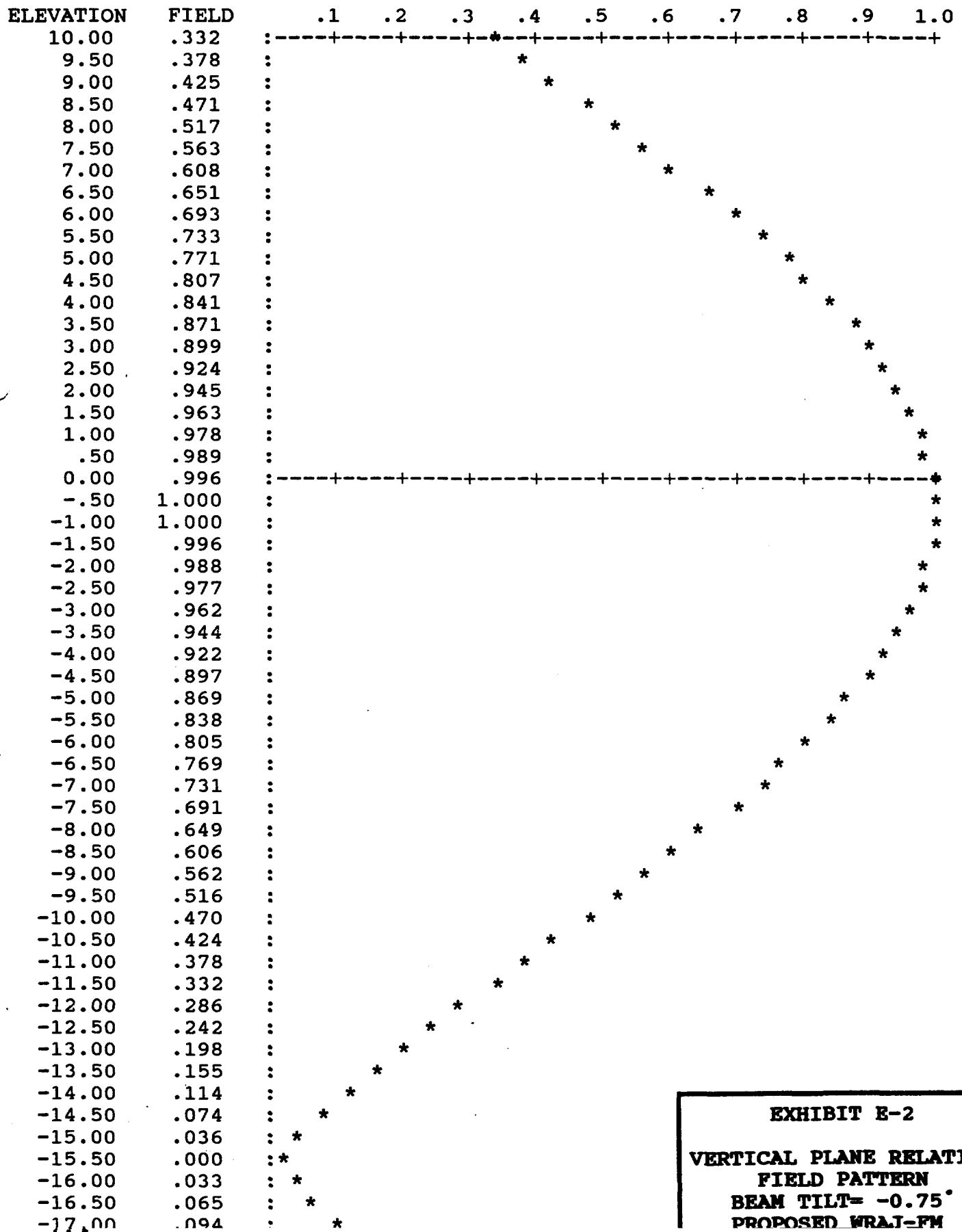
RF SPECIALTIES
ELEVATION PATTERN
FML-4E - 4

DATE: FEBRUARY 24, 1992
RMS GAIN= 2.1322

PROGRAM NO. FMP
BEAM TILT= -.75%
NULL FILL= 0%

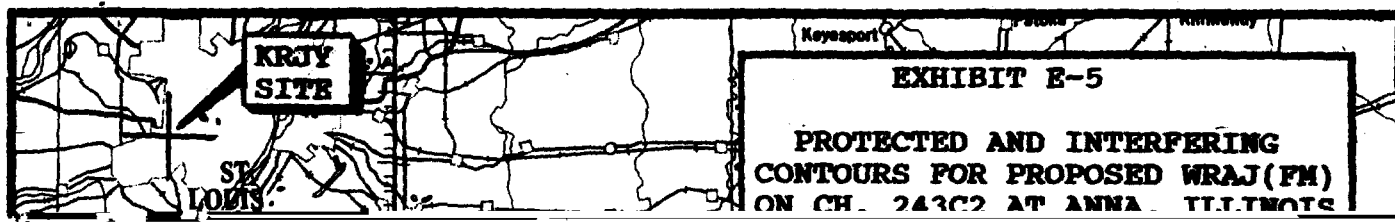
PLOT PREPARED FOR: WRAJ-FM

FREQ: 96.5 mHz



D.L. Markley & Associates, Inc.**Consulting Engineers****PROPOSED WRAJ-FM DIRECTIONAL ANTENNA SYSTEM**

AZIMUTH	Erel	Prel	ERP(kw)	ERP(dBK)
000	.955	0.912	14.14	11.50
010	1.000	1.000	15.5	11.90
020	1.000	1.000	15.5	11.90
030	1.000	1.000	15.5	11.90
040	1.000	1.000	15.5	11.90
050	1.000	1.000	15.5	11.90
060	1.000	1.000	15.5	11.90
070	1.000	1.000	15.5	11.90
080	1.000	1.000	15.5	11.90
090	1.000	1.000	15.5	11.90
100	1.000	1.000	15.5	11.90
110	1.000	1.000	15.5	11.90
120	1.000	1.000	15.5	11.90
130	1.000	1.000	15.5	11.90
140	1.000	1.000	15.5	11.90
150	1.000	1.000	15.5	11.90
160	1.000	1.000	15.5	11.90
170	1.000	1.000	15.5	11.90
180	1.000	1.000	15.5	11.90
190	1.000	1.000	15.5	11.90
200	1.000	1.000	15.5	11.90
210	1.000	1.000	15.5	11.90
220	1.000	1.000	15.5	11.90
230	1.000	1.000	15.5	11.90
240	1.000	1.000	15.5	11.90
250	1.000	1.000	15.5	11.90
260	1.000	1.000	15.5	11.90
270	1.000	1.000	15.5	11.90
290	1.000	1.000	15.5	11.90
300	1.000	1.000	15.5	11.90
310	.935	.874	13.55	11.32
320	.820	.672	10.42	10.18
330	.765	.585	9.07	9.58
340	.775	.601	9.31	9.69
332.2	.762	.581	9.00	9.54



RF RADIATION EXPOSURE PREVENTION PROCEDURES

The applicant agrees to the following measures which will assure compliance with OST Bulletin No. 65 entitled "Evaluating Compliance with FCC-Specified Guidelines for Human Exposure to Radiofrequency Radiation". A restricted area will be established beginning at a point outside the area where the guidelines may be exceeded, either at ground level or at an elevation above ground level.

MEASURES TAKEN TO PROTECT THE GENERAL PUBLIC:

The center of radiation and bottom bay of the FM antenna is or will be at a height above ground greater than the value listed in Table 1 of OST Bulletin No. 65 and will prevent the exposure of humans to RF radiation levels in excess of the American National Standards Institute guidelines (ANSI C95.1-1982). Appropriate measures, including the posting of warning signs which describe the nature of the hazard, will be or have been taken to preclude casual or inadvertent access to the supporting structure.

MEASURES TAKEN TO PROTECT COMPANY EMPLOYEES AND CONTRACT LABOR:

For personnel whose duties require them to enter the restricted area, the following procedure has been or will be instituted to ensure that exposure to RF radiation levels will not exceed the established guidelines:

The nonionizing RF levels at any particular work location will be determined through measurement to determine their exact value. The time-averaging methods described in the ANSI standard will be applied to limit exposure to working personnel, OR

If the levels are too high for such methods or if the time required to be spent inside the restricted area is larger than would be permissible by the averaging method, all emission of RF energy will cease during the work period to the extent that such RF energy would exceed the ANSI guidelines for any time period.

This policy is or will be posted at the access point to the restricted area. Anyone requiring access to the restricted area who feels the duties to be performed may place them at risk of exposure to unsafe levels of RF radiation should not enter the restricted area and are to immediately contact either the General Manager or the Chief Operator.

***** ANSI STANDARD REPORT FOR WRAJ-FM *****

U.S. AIR FORCE WRAJ-FM 15-5 111 U.S. AIR FORCE WRAJ-FM 15-5 111